

Amdt. dated February 1, 2006
Reply to Office action of 12/1/2005

Serial No. 10/090,556
Docket No. SJO920010066US1
Firm No. 0037.0017

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (Currently amended) A method for implementing security features at a portal server, comprising:

receiving a first request from a client;
in response to receiving the first request, authenticating the client;
consulting a database to determine access privileges of the authenticated client for interactions with a plurality of applications, wherein the applications are located at backend servers;
generating code containing selectable interactions with the applications, wherein any authentication for the selectable interactions is performed within the portal server; and
sending the code to the client;
responsive to sending the code to the client, receiving a second request from the client,
wherein the second request contains a selection of at least one of the selectable interactions;
determining from the selection a set of backend servers to process the second request;
forwarding the second request to the set of backend servers;
receiving results corresponding to the second request from applications executing on the backend servers; and
sending the results to the client, wherein sending the results to the client further comprises:

- (i) generating further selectable interactions; and
- (ii) sending the further selectable interactions with the results to the client.

2. (Canceled)

3. (Canceled)

4. (Original) The method of claim 1, wherein the portal server is a Web server and the portal server comprises a portal application.

Amdt. dated February 1, 2006
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Serial No. 10/090,556
Docket No. SJO920010066US1
Firm No. 0037.0017

5. (Original) The method of claim 1, wherein the database comprises a plurality of generic objects, wherein each generic object contains the access privileges related to a user for the elements of the plurality of applications.

6. (Original) The method of claim 5, wherein the access privileges indicate write access.

7. (Original) The method of claim 5, wherein the database is in the form of a table.

8. (Original) The method of claim 1 wherein the code is in a form that can be rendered into a Web page.

9. (Original) The method of claim 8, wherein the form of the code is comprised of active code, wherein the active code can be executed on the client.

10. (Previously presented) The method of claim 1, wherein the selectable interactions correspond to operations within the applications and resources related to the applications, and wherein the applications, the operations within the applications, and the resources related to the applications are displayed on a single Web page.

11. (Original) The method of claim 1, wherein the selectable interactions correspond to resources related to the applications.

12. (Original) The method of claim 11, wherein the resources are selected from the group consisting of multimedia content, objects, files, attributes of objects, program elements, database objects, table entries.

13. (Currently amended) A method at a backend system for securely making available a backend application, comprising:

creating data structures corresponding to interactions with the backend application;

Amdt. dated February 1, 2006
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Serial No. 10/090,556
Docket No. SJO920010066US1
Firm No. 0037.0017

associating privileges for each of the data structures, wherein the privileges are fully checked at a portal application separately hosted from the backend application;
receiving, at the backend application, a request from the portal application for reading the data structures; and
sending, from the backend application, the data structures to the portal application, wherein the interactions are operations that can be performed on the backend application and on resources related to the backend application, and wherein the backend application, the operations that can be performed on the backend application, and the resources related to the backend application are displayed on a single Web page on a client.

14. (Previously presented) The method of claim 13, further comprising:
receiving a request for an interaction with the backend application from the portal application;

processing the request without checking for the privileges; and
sending the results of processing the request to the portal ~~server~~ application.

15. (Original) The method of claim 13, wherein the data structures are data objects.

16. (Original) The method of claim 13, wherein a representation of the data structure is from the group consisting of a relational database, an XML document and a class.

17. (Canceled)

18. (Previously presented) The method of claim 13, wherein the interactions relate to resources associated with the backend application.

19. (Currently amended) A method for accessing a group of applications at a client computer comprising:
authenticating with a portal server;

Amdt. dated February 1, 2006
Reply to Office action of 12/1/2005

Serial No. 10/090,556
Docket No. SJO920010066US1
Firm No. 0037.0017

receiving a list of applications and interactions that can be performed with the applications from the portal server, wherein the applications are stored at backend servers that are different from the portal server;

selecting an interaction; and

receiving results based on the selection of the interaction without authenticating with the backend servers, wherein receiving the results further comprises receiving a set of further interactions selectable by the client computer, wherein the portal server performs all necessary authentications of the client computer, and wherein the backend servers avoid any authentication of the client computer.

20. (Canceled)

21. (Original) The method of claim 19, wherein authenticating, receiving the list, selecting, and receiving results are at a Web browser.

22. (Currently amended) A system for implementing security features, comprising:

a portal server;

means for receiving a first request from a client at the portal server;

means for authenticating the client, in response to receiving the first request;

means for consulting a database to determine access privileges of the authenticated client for interactions with a plurality of applications, wherein the applications are located at backend servers;

means for generating code containing selectable interactions with the applications, wherein any authentication for the selectable interactions is performed within the portal server; and

means for sending the code to the client;

means for receiving a second request from the client in response to sending the code to the client, wherein the second request contains a selection of at least one of the selectable interactions;

means for determining from the selection a set of backend servers to process the second request;

Amdt. dated February 1, 2006
Reply to Office action of 12/1/2005

Serial No. 10/090,556
Docket No. SJO920010066US1
Firm No. 0037.0017

means for forwarding the second request to the set of backend servers;
means for receiving results corresponding to the second request from applications
executing on the backend servers; and
means for sending the results to the client, wherein the means for sending the results to
the client further performs:
(i) generating further selectable interactions; and
(ii) sending the further selectable interactions with the results to the client.

23. (Canceled)

24. (Canceled)

25. (Previously presented) The system of claim 22, wherein the database comprises a plurality of generic objects, wherein each generic object contains the access privileges related to a user for the elements of the plurality of applications, wherein the database is in the form of a table, wherein the selectable interactions correspond to operations within the applications and resources related to the applications, and wherein the applications, the operations within the applications, and the resources related to the applications are displayed on a single Web page.

26. (Currently amended) A system for securely making available a backend application, comprising:

a backend system hosting the backend application;
means for creating data structures at the backend system corresponding to interactions with the backend application;
means for associating privileges for each of the data structures, wherein the privileges are fully checked at a portal application separately hosted from the backend application;
means for receiving, at the backend application, a request from the portal application for reading the data structures; and
means for sending, from the backend application, the data structures to the portal application;

Amdt. dated February 1, 2006
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Serial No. 10/090,556
Docket No. SJO920010066US1
Firm No. 0037.0017

means for receiving a request for an interaction with the backend application from the portal application;

means for processing the request without checking for the privileges; and

means for sending the results of processing the request to the portal application.

27. (Canceled)

28. (Currently amended) A system for accessing a group of applications comprising:
a client computer;

means for authenticating with a portal server from the client computer;

means for receiving a list of applications and interactions that can be performed with the applications from the portal server, wherein the applications are stored at backend servers that are different from the portal server;

means for selecting an interaction; and

means for receiving results based on the selection of the interaction without authenticating with the backend servers, wherein the means for receiving the results further performs receiving a set of further interactions selectable by the client computer, wherein the portal server performs all necessary authentications of the client computer, and wherein the backend servers avoid any authentication of the client computer.

29. (Canceled)

30. (Currently amended) An article of manufacture including code for implementing security features at a portal server, wherein the code is capable of causing operations, the operations comprising:

receiving a first request from a client;

in response to receiving the first request, authenticating the client;

consulting a database to determine access privileges of the authenticated client for interactions with a plurality of applications, wherein the applications are located at backend servers;

Amdt. dated February 1, 2006
Reply to Office action of 12/1/2005

Serial No. 10/090,556
Docket No. SIO920010066US1
Firm No. 0037.0017

generating code containing selectable interactions with the applications, wherein any authentication for the selectable interactions is performed within the portal server; and
sending the code to the client;
responsive to sending the code to the client, receiving a second request from the client,
wherein the second request contains a selection of at least one of the selectable interactions;
determining from the selection a set of backend servers to process the second request;
forwarding the second request to the set of backend servers;
receiving results corresponding to the second request from applications executing on the
backend servers; and
sending the results to the client, wherein sending the results to the client further
comprises:
(i) generating further selectable interactions; and
(ii) sending the further selectable interactions with the results to the client.

31. (Canceled)

32. (Canceled)

33. (Original) The article of manufacture of claim 30, wherein the portal server is a Web server and the portal server comprises a portal application.

34. (Original) The article of manufacture of claim 30, wherein the database comprises a plurality of generic objects, wherein each generic object contains the access privileges related to a user for the elements of the plurality of applications.

35. (Original) The article of manufacture of claim 34, wherein the access privileges indicate write access.

36. (Original) The article of manufacture of claim 34, wherein the database is in the form of a table.

Amdt. dated February 1, 2006
Reply to Office action of 12/1/2005

Serial No. 10/090,556
Docket No. SJO920010066US1
Firm No. 0037.0017

37. (Original) The article of manufacture of claim 30 wherein the code is in a form that can be rendered into a Web page.

38. (Original) The article of manufacture of claim 37, wherein the form of the code is comprised of active code, wherein the active code can be executed on the client.

39. (Previously presented) The article of manufacture of claim 30, wherein the selectable interactions correspond to operations within the applications and resources related to the applications, and wherein the applications, the operations within the applications, and the resources related to the applications are displayed on a single Web page.

40. (Original) The article of manufacture of claim 30, wherein the selectable interactions correspond to resources related to the applications.

41. (Original) The article of manufacture of claim 40, wherein the resources are selected from the group consisting of multimedia content, objects, files, attributes of objects, program elements, database objects, table entries.

42. (Currently amended) An article of manufacture, including code for securely making available a backend application at a backend system, wherein the code is capable of causing operations, the operations comprising:

creating data structures corresponding to interactions with the backend application;

associating privileges for each of the data structures, wherein the privileges are fully checked at a portal application separately hosted from the backend application;

receiving, at the backend application, a request from the portal application for reading the data structures; and

sending, from the backend application, the data structures to the portal application,
wherein the interactions are operations that can be performed on the backend application and on resources related to the backend application, and wherein the backend application, the operations

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Reply to Office action of 12/1/2005

Serial No. 10/090,556
Docket No. SJO920010066US1
Firm No. 0037.0017

that can be performed on the backend application, and the resources related to the backend application are displayed on a single Web page on a client.

43. (Previously presented) The article of manufacture of claim 42, further comprising:
receiving a request for an interaction with the backend application from the portal application;

processing the request without checking for the privileges; and
sending the results of processing the request to the portal server application.

44. (Original) The article of manufacture of claim 42, wherein the data structures are data objects.

45. (Original) The article of manufacture of claim 42, wherein a representation of the data structure is from the group consisting of a relational database, an XML document and a class.

46. (Canceled)

47. (Previously presented) The article of manufacture of claim 42, wherein the interactions relate to resources associated with the backend application.

48. (Currently amended) An article of manufacture, including code for accessing a group of applications at a client computer, wherein the code is capable of causing operations, the operations comprising:

authenticating with a portal server;

receiving a list of applications and interactions that can be performed with the applications from the portal server, wherein the applications are stored at backend servers that are different from the portal server;

selecting an interaction; and

receiving results based on the selection of the interaction without authenticating with the backend servers, wherein receiving the results further comprises receiving a set of further

Amdt. dated February 1, 2006
Reply to Office action of 12/1/2005

Serial No. 10/090,556
Docket No. SJO920010066US1
Firm No. 0037.0017

interactions selectable by the client computer, wherein the portal server performs all necessary authentications of the client computer, and wherein the backend servers avoid any authentication of the client computer.

49. (Canceled)

50. (Original) The article of manufacture of claim 48, wherein authenticating, receiving the list, selecting, and receiving results are at a Web browser.